

Amendment under 37 CFR §1.111 U.S. Patent Appl. S.N. 10/527,090 Replacement Sheet of Drawings

Fig.3

Sequence Ran

inge: (0 6)					٠.
Bases 1-669 of SEQ ID NO: 2					
10	20	30	40	50	60
GATCTTCCGG	GACATCTGAG	GCGCCGGAGG	CGATCCGAGG	CGCCCGAGGC	GTCTGCGCGA
		••			
70	. 80	90	001	110	120
AGGGCGCCGC	CGTGCCGTCC				
	•				
130	140	150	160	170	180
	GGCTGTGTGG			•	
190	200	210	220	230	240
	GGCCGGAATT				
00000000	000000				
250	260	270	280	290	300
	TATCCACCCG			•	
TCACTTCTCG	ΙΝΙΟΟΛΟΟΟΟ	ni choomic			
310	320	ว วก	340	350	360
	CTCACCCCTG				
161000010	CICACCCIG	ICUCCUIUNC	AGGGACCCGC	dirottoono	1000
222	200		400	410	420
370					
GGCCCCACAG	GACCTTTCGG			ICGGIGACGG	CCICCOAAIA
	440	450	. 460	470	480
430				470	
ACGCGGCCGC	CCCCCCCTCC	GUUGGIIGAU	CONTCUGGG	CACGCGCCCC	000000000
	500	510	E 9.0	620	540
. 490				530	
CGGCCACGTC	CGGTCTCGCC	CCGCCCGACA	TCGGCTGCGA		ICOCACTICI
		5.770		500	600
550	560	570	580	590	
TCCCGCCTCC	CGGCCGCGTT	TTTCCGCCGC	CGAAGGIGCG	GCGACGCGTA	CCGAATCCCC
				252	cco
610	620	630	•	650	
CTTCATCGCG	ACGTGCTTCC	GCACGGCCGC	GTTCAACGAT	GIICCACGAC	AAAGGAGIIG

CAGGTTTCC



Bases 1-1287 of SEQ ID NO:2

Fig.4

GATCTTCCGG GACATCTGAG GCGCCGGAGG CGATCCGAGG CGCCCGAGGC GTCTGCGCGA 60 AGGGCGCCGC CGTGCCGTCC ATCCCCGTCC GCGTCGACGC GGGCCGGGAG GGGGTGCGGC 120 GGCGCCCTTC GGCTGTGTGG ACGAAGCGTC GGGTCGGAGG GGCGGCCGGA TATCGTCCTT 180 GGGGCGGGGT GGCCGGAATT GCCGCCATGG TGTTGCCGGG GAATCGACCC GAAGACATGA 240 TCACTTCTCG TATCCACCCG ATCACGTATC CGGGAGTCGA GAAGTGTTAC GCCGTGCCCC 300 TGTCCGCGTC CTCACCCCTG TCGCCGTGAC AGCGACCCGC GTTCTTCCAC TCGCACGGAC 360 GGCCCCACAG GACCTTTCGG CCCGGGCTCG CCCCGCCGCC TCGGTGACGG CCTCCGAATA 420 ACGCGGCCGC CGGGGCCTCG GCCGGTTGAC CGATCCGGGT CACGCGCCCC GCCGGGCGGG 480 CGGCCACGTC CGGTCTCGCC CCGCCCGACA TCGGCTGCGA CTGCCTTCGC TCGCACTTCT 540 TCCCGCCTCC CGGCCGCGTT TTTCCGCCGC CGAAGGTGCG GCGACGCGTA CCGAATCCCC 600 CTTCATCGCG ACGTGCTTCC GCACGGCCGC GTTCAACGAT GTTCCACGAC AAAGGAGTTG 660 CAGGTTTCC ATG CGC ATA CGC CGG AGA GCT CTC GTC TTC GCC ACT ATG AGT Mei Arg Ile Arg Arg Arg Ala Leu Val Phe Ala Thr Mei Ser> GCG GTG TTA TGC ACC GCC GGA TTC ATG CCG TCG GCC GGC GAG GCC GCC Ala Val Leu Cys Thr Ala Gly Phe Met Pro Ser Ala Gly Glu Ala Ala> GCC GAC AAT GGC GCG GGG GAA GAG ACG AAG TCC TAC GCC GAA ACC TAC Ala Asp Asn Gly Ala Gly Glu Glu Thr Lys Ser Tyr Ala Glu Thr Tyr> CGC CTC ACG GCG GAT GAC GTC GCG AAC ATC AAC GCG CTC AAC GAA AGC Arg Leu Thr Ala Asp Asp Val Ala Asn Ile Asn Ala Leu Asn Glu Ser> GCT CCG GCC GCT TCG AGC GCC GGC CCG TCG TTC CGG GCC CCC GAC TCC Ala Pro Ala Ala Ser Ser Ala Gly Pro Ser Phe Arg Ala Pro Asp Ser> GAC GAC AGG GTC ACC CCT CCC GCC GAG CCG CTC GAC AGG ATG CCC GAC ASP ASP Arg Val Thr Pro Pro Ala Glu Pro Leu Asp Arg Mei Pro Asp> CCG TAC CGT CCC TCG TAC GGC AGG GCC GAG ACG GTC GTC AAC AAC TAC Pro Tyr Arg Pro Ser Tyr Gly Arg Ala Glu Thr Val Val Asn Asn Tyr> ATA CGC AAG'TGG CAG CAG GTC TAC AGC CAC CGC GAC GGC AGG AAG CAG IIe Arg Lys.Trp Gln Gln Val Tyr Ser His Arg Asp Gly Arg Lys Gln> CAG ATG ACC GAG GAG CAG CGG GAG TGG CTG TCC TAC GGC TGC GTC GGT GIn Met Thr Glu Glu Gln Arg Glu Trp Leu Ser Tyr Gly Cys Val Gly> GTC ACC TGG GTC AAT TCG GGT CAG TAC CCG ACG AAC AGA CTG GCC TTC Val Thr Trp Val Asn Ser Gly Gln Tyr Pro Thr Asn Arg Leu Ala Phe> GCG TCC TTC GAC GAG GAC AGG TTC AAG AAC GAG CTG AAG AAC GGC AGG Ala Ser Phe Asp Glu Asp Arg Phe Lys Asn Glu Leu Lys Asn Gly Arg> CCC CGG TCC GGC GAG ACG CGG GCG GAG TTC GAG GGC CGC GTC GCG AAG Pro Arg Ser Gly Glu Thr Arg Ala Glu Phe Glu Gly Arg Val Ala Lys> GAG AGC TTC GAC GAG GAG AAG GGC TTC CAG CGG GCG CGT GAG GTG GCG GIu Ser Phe Asp Glu Glu Lys Gly Phe Gln Arg Ala Arg Glu Val Ala>



Fig.5

Bases 1288-2393 of SEQ ID NO: 2

5/7

TCC GTC ATG AAC AGG GCC CTG GAG AAC GCC CAC GAC GAG AGC GCT TAC Ser Val Met Asn Arg Ala Leu Glu Asn Ala His Asp Glu Ser Ala Tyr> CTC GAC AAC CTC AAG AAG GAA CTG GCG AAC GGC AAC GAC GCC CTG CGC Leu Asp Asn Leu Lys Lys Glu Leu Ala Asn Gly Asn Asp Ala Leu Arg> AAC GAG GAC GCC CGT TCC CCG TTC TAC TCG GCG CTG CGG AAC ACG CCG Asn Glu Asp Ala Arg Ser Pro Phe Tyr Ser Ala Leu Arg Asn Thr Pro> TCC TTC AAG GAG CGG AAC GGA GGC AAT CAC GAC CCG TCC AGG ATG AAG Ser Phe Lys Glu Arg Asn Gly Gly Asn His Asp Pro Ser Arg Mei Lys> GCC GTC ATC TAC TCG AAG CAC TTC TGG AGC GGC CAG GAC CGG TCG AGT Ala Val lle Tyr Ser Lys His Phe Trp Ser Gly Gin Asp Arg Ser Ser> TCG GCC GAC AAG AGG AAG TAC GGC GAC CCG GAC GCC TTC CGC CCC GCC Ser Ala Asp Lys Arg Lys Tyr Gly Asp Pro Asp Ala Phe Arg Pro Ala> CCG GGC ACC GGC CTG GTC GAC ATG TCG AGG GAC AGG AAC ATT CCG CGC Pro Gly Thr Gly Leu Val Asp Met Ser Arg Asp Arg Asn lie Pro Arg> AGC CCC ACC AGG CCC GGT GAG GGA TTC GTC AAT TTC GAC TAC GGC TGG Ser Pro Thr Ser Pro Gly Glu Gly Phe Val Asn Phe Asp Tyr Gly Trp> TTC GGC GCC CAG ACG GAA GCG GAC GCC GAC AAG ACC GTC TGG ACC CAC Phe Gly Ala Gln Thr Glu Ala Asp Ala Asp Lys Thr Val Trp Thr His> GGA AAT CAC TAT CAC GCG CCC AAT GGC AGC CTG GGT GCC ATG CAT GTC Gly Asn His Tyr His Ala Pro Asn Gly Ser Leu Gly Ala Met His Val> TAC GAG AGC AAG TTC CGC AAC TGG TCC GAG GGT TAC TCG GAC TTC GAC Tyr Glu Ser Lys Phe Arg Asn Trp Ser Glu Gly Tyr Ser Asp Phe Asp> CGC GGA GCC TAT GTG ATC ACC TTC ATC CCC AAG AGC TGG AAC ACC GCC Arg Gly Ala Tyr Val lie Thr Phe lie Pro Lys Ser Trp Asn Thr Ala> CCC GAC AAG GTA AAG CAG GGC TGG CCG TGA TGTGAGC GGGGTGGAGG Pro Asp Lys Val Lys Gln Gly Trp Pro ***> GGAGCCGGTT GCCCGGCTCC CCTCCACCCT CTCCCCCGCC ACCACGAAAG TCGCTACAGC TCGTGTCCCG TCGTGCTGTC GACGTGCGCC GGGAGTTCGC CCTCGTGGCG GTCGCCCGTC 2040
GTCGGGGTGC CCGTGGGTTC GAACATGAGG ATGGAGGCGC CCGGGGAGGA CGGCTTGTGT TCGGTGCCCT TGGGCACCAC GAAGGTGTCG CCCTTGTGCA GGCGCACCGT GTGTTCCGTT CCGTCGGAGT CGCGGAGCGC CACGTCGAAG CGGCCGTCCA GGACGAGGAA GAACTCGTCG GTGTCCTCGT GGACGTGCCA GACGTGCTCG CCTCGGGTGT GGGCGACGCG GACGTCGTAG TCGTTCATGC GGGCGACGAT GCGCGGGCTG TAGACGTCGT CGAAGGAGGC GAGGGCCTTG CCGAGGTTGA CGGGCTCGGT GTCGTTCATG GTCCGAGTCT CGGCGGGAGC CCGCCGCGGC